



CRE-2110 Elite Curve - Custom Curved Rail Stairlift

Technical Specifications

Rev 3: 07-30-2013
ILS-00905

MODEL NUMBER: CRE-2110 and CRE-2110C
ETL-Intertek C-US Listed: Control Number: 4004689

PERFORMANCE STANDARDS:

ANSI/ASME: A18.1-1999 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2003 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2005 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2008 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2011 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts
CSA B613 Private Residence Lifts
ANSI/ASME: CSA B44.1/ASME-A17.5 Elevator and Escalator Electrical Equipment

APPLICATIONS: straight staircases, straight with top and bottom overruns and straight with intermediate landing; variety of flat, spiral, and custom staircase configurations on both inside and outside of staircase

RATED LOAD: 400 lb (181 kg) maximum

NUMBER OF PASSENGERS: 1

POWER SOURCE: 24VDC comprised of 2 each 7AH 12 volt sealed maintenance-free lead acid batteries; On/Off power switch to prevent battery drain over lengthy storage periods

CHARGER: 120VAC/1.5A, 24VDC/2A continuous monitoring, full primary cut off

DRIVE: 24VDC direct-drive gear-motor, 2 pole rated .68 HP, 58:1 right-angle self-locking worm gear box, 41.5 RPM on the output shaft of the gear box

FINAL DRIVE: integrated 8dp gear rack on rail with a spur gear on the gearbox output shaft

MOTOR CONTROLLER: custom 24VDC PWM controller with acceleration ramping

BRAKING: dynamic motor braking through motor controller, self-locking worm gear box, and electro-mechanical motor brake

CALL/SEND CONTROL: 2.4GHz RF wireless control with interference suppression; momentary switching requiring a user to continuously hold button to control unit

ARMREST CONTROL: 3-position momentary rocker switch requiring user to continuously hold rocker switch to control unit; switch mounted under armrest; optional keyed control

SUPPORTS: clamps anchored to stair tread; normal rail position is 2 1/2" (63.5 mm) above step nose; number of clamps dependent on the length of rail

ANGLE: from 0 to 45 degrees standard, custom to 50 degrees

SPEED: maximum top speed is 25 ft/min (0.13 m/s); actual speed varies depending on rider weight and angle of incline

Bruno Independent Living Aids, Inc., 1780 Executive Drive, P.O. Box 84, Oconomowoc, WI 53066
Phone (800) 882-8183 Fax (262) 953-5501

Any reproduction or other use of these materials without written permission of Bruno Independent Living Aids, Inc. is expressly prohibited.
Bruno Independent Living Aids, Inc. reserves the right to modify or make changes to these specifications at any time without notice.

LENGTH OF TRACK: custom lengths to 50' (15 m)

TRACK CONSTRUCTION: 5/16" (8 mm) mild steel welded shape, covered gear rack welded to rail; joint with welded side clamp blocks at each rail joint

TRACK LOCATION: track designed to contour of stairway and can fit to within 7" - 8" (178–203 mm) of wall or obstruction.

TRACK EXTENSION: standard track extension is approximately 6.5" (165 mm) past top step nose and 18 - 20" (457–508 mm) past bottom step nose

FOOTREST: folding footrest with safety sensor panel and handle actuator

SEAT: padded, folding and swivel with stops at 45° (bottom), 0° (forward), 60° (top), and 90° (top); multiple-position seat height adjustment

ARMRESTS: fixed to seat frame; armrest may be individually rotated toward seat back for smaller profile when not in use and to facilitate transfers; armrests have 4" (102 mm) width adjustment

SAFETY EQUIPMENT:

- 1) seat swivel switch allowing operation only when chair is in center position
- 2) carriage and footrest safety switches
- 3) retractable seat positioning belt
- 4) charging light (green) on carriage; charging light (amber) at each end of rail
- 5) 30A manual reset breaker on motor control circuit
- 6) 5A fuse on control circuits
- 7) final end stop bumper at each end of rail
- 8) final limit switch
- 9) full diagnostic user interface PC board

BATTERY CAPACITY/POWER OUTAGE:

cycles: variable depending on angle, length of run, ambient temperature and rider weight
batteries: between 28 and 36 hours if power is disconnected

WEIGHT OF UNIT:

100 lb (45 kg) carriage and drive, 50 lb (23 kg) seat and footrest, and 16 lb (7.25 kg) per foot (meter) rail weight

TESTING PERFORMED:

- 1) battery charger UL tested and listed to standard UL1012
- 2) self-locking gear box statically tested with 3200 lb (1451 kg) (8 times rated load) on a 45-degree rail for 5 minutes with no carriage movement; test was performed at manufacturer's location.
- 3) repetitive tests performed to determine power outage cycling
- 4) electrical discharge to ground testing

OPTIONS:

- 1) keyed call/send controls
- 2) keyed controls on chair arm
- 3) commercial package with overspeed safety brake and keyed controls on chair arm
- 4) power swivel seat at top landing (up to 90° of rotation)
- 5) power folding footrest
- 6) mid park and charge
- 7) larger seat
- 8) larger footrest (manual and powered)

Bruno Independent Living Aids, Inc., 1780 Executive Drive, P.O. Box 84, Oconomowoc, WI 53066
Phone (800) 882-8183 Fax (262) 953-5501

Any reproduction or other use of these materials without written permission of Bruno Independent Living Aids, Inc. is expressly prohibited.
Bruno Independent Living Aids, Inc. reserves the right to modify or make changes to these specifications at any time without notice.